

# ABSTRACT

An in-shell egg pasteurization system configured to pasteurize and handle eggs includes a loading system configured to accept and load an in-shell egg. The system also includes a microwave system configured to impart microwave energy to the yolk of the in-shell egg to heat the yolk to a first predetermined temperature and to impart microwave energy to the albumen of the in-shell egg to heat the albumen to a second predetermined temperature.